The Series HHT Hazardous Area Humidity/Temperature Transmitter takes accurate measurements in the harshest of environments. The explosion-proof model is offered with 4-20 mA output for humidity and temperature, and do require an intrinsically safe barrier to meet hazardous area approvals.

**FEATURES/BENEFITS**
- FM approved explosion-proof and intrinsically safe models
- Integral LCD option
- Dual temperature and relative humidity output models
- Dual beam, dual-wavelength sensor automatically corrects for aging effects
- Gray finish tested to withstand 168 hour salt spray test
- Compensated Temperature: ±2% 10 to 95% RH, ±0.9°F at 72°F (±0.3°C at 25°C).
- Humidity Limits: 10 to 95% RH (non-condensing).
- Power Requirements: 16-35 VDC or 19-28 VAC.
- Power Consumption: Average: 2 w; Peak: 3.75 w.
- Output: Current: 4-20 mA (max. 500 Ω); Voltage: 0-5 VDC or 0-10 VDC (min. 0.5 VDC).

**APPLICATIONS**
- Process monitoring
- Offshore HVAC monitoring
- Dust and grain handling
- Animal husbandry
- Universal outputs to work with any building management system

**SPECIFICATIONS**
- Relative Humidity Range: 0 to 100% RH.
- Temperature Range: -40 to 140°F (-40 to 60°C).
- Accuracy: ±2% or ±10% RH; ±0.9°F at 72°F (±0.3°C at 25°C).
- Hysteresis: ±1%.
- Repeatability: ±0.1%.
- Temperature Limits: -40 to 140°F (-40 to 60°C).
- Storage Temperature: -40 to 178°F (-40 to 80°C).
- Power Requirements: For intrinsically safe models HHT-IX, 9.5-28 VDC. For explosion-proof models HHT-EX, 18.5-28 VDC.
- Output Signal: 4-20 mA, 2 channels for humidity/temperature models (loop power on RH).
- Response Time: 15 s.
- Electrical Connections: Screw terminal block.
- Conduit Connection: 1/2 female NPT.
- Drift: < 1% RH/year.
- RH Sensor: Capacitance polymer.
- Temperature Sensor: Solid state band gap.
- Housing Material: Aluminum.
- Display: Optional 2 line alpha numeric, 8 characters/line. Temperature display is °F/°C selectable.
- Display Resolution: RH: 0.1%; Temperature: 0.1°F (0.1°C).
- Weight: 2 lb (907 g).

**SERIES CDWP**

**CARBON DIOXIDE TRANSMITTER**

NDIR CO₂ Sensor with Universal Outputs in an Industrial Housing

The Series CDWP Carbon Dioxide Transmitter accurately monitors the CO₂ concentration in industrial and indoor environments to help achieve energy savings. For increased sensor life and accuracy, a single-beam dual-wavelength non-dispersive infrared (NDIR) sensor is used to eliminate light source aging effects. This sensing technology provides the highest level of accuracy compared to Automatic Baseline Correction methods, which can unintentionally shift the calibration based on CO₂ levels and barometric pressure conditions.

**SPECIFICATIONS**
- Sensor: Single beam, dual-wavelength NDIR.
- Range: CO₂: 0 to 2000, 0 to 5000, or 0 to 10000 ppm (depending on model).
- Accuracy: CO₂: ±40 ppm ±3% of reading.
- Temperature Dependence: ±8 ppm/°C at 1100 ppm.
- Non-Linearity: ±8 ppm/°C at 1100 ppm.
- Pressure Dependence: 0.13% of reading per mm of Hg.
- Response Time: 300 s (T½).
- Temperature Limits: 32 to 122°F (0 to 50°C).

**FEATURES/BENEFITS**
- FM approved explosion-proof and intrinsically safe models
- Integral LCD option
- Dual temperature and relative humidity output models
- Single-beam dual-wavelength sensor automatically corrects for aging effects
- Measures unfiltered light intensity directly and eliminates error from incorrect assumptions of gas concentration in theoretical logic assumption methods
- Universal outputs to work with any building management system

**APPLICATIONS**
- Animal husbandry
- Mechanical room
- CO₂ refrigeration monitoring
- Greenhouses

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>A-CDWP-L</td>
<td>Replacement lid with filter material</td>
<td>$46.50</td>
</tr>
<tr>
<td>A-CDWP-H</td>
<td>Suspended mount bracket</td>
<td>$15.50</td>
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